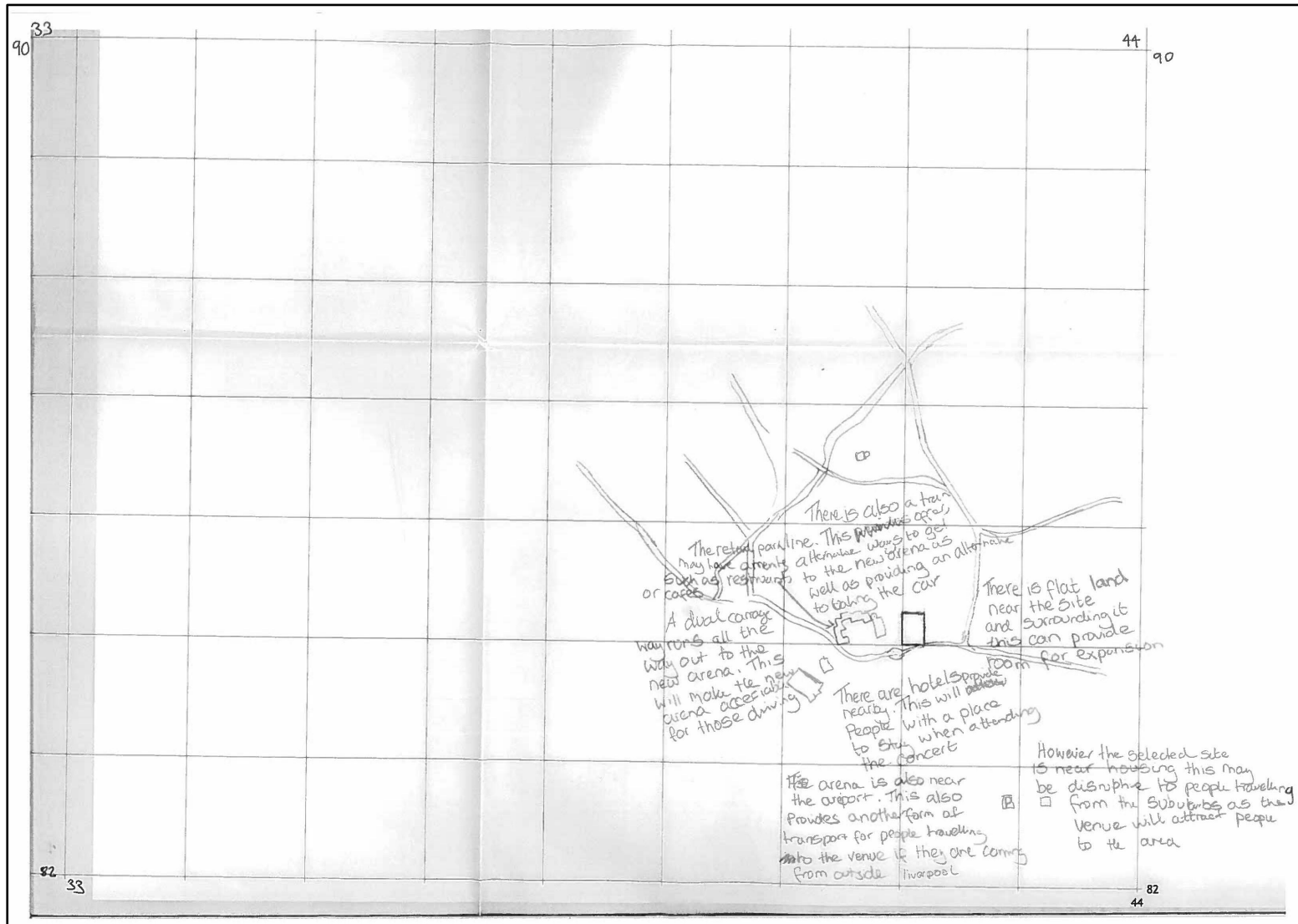


# Candidate 1 evidence



Title of atlas used in examination	Philips Modern School atlas 96 <sup>th</sup> edition
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ENTER NUMBER OF QUESTION		DO NOT WRITE IN THIS MARGIN
(a)		
(ii)	There are many advantages and disadvantages to	
	the area selected for the new venue in	
	Liverpool. The site selected was 42194 <del>3</del> .	
	This <sup>area is open space</sup> <del>is an advantage</del> therefore there	
	is room for expansion if there <del>is</del> need to	
	be. For example if the venue is successful	
	then the size of the car park may need	
	to increase. This is an advantage as it	
	allows the planners to effectively build the	
	new venue and expand if necessary.	
	There <del>area</del> <sup>(413, 938)</sup> is a hotel nearby the new	
	potential venue. This will provide a	
	place for tourists to stay when they are	
	attending a concert or an event in the	

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	new venue making it an advantage of the selected site <del>the selected site</del>
	There is a dual carriage way which is 41939. This will provide access to the new venue as well as a link to the city centre of Liverpool. Therefore this <del>improvement</del> is an advantage of the site because the new venue will have good accessibility. There are also other transport links such as the airport (4382). This <del>helps</del> will allow other people from other parts of the UK to attend events in the new venue. This advantage will have many economic benefits as it is therefore bringing <del>the</del> new tourists to the area.
	<del>Also</del> The new site is also located next to a retail park <sup>(416 842)</sup> . This may have amenities <del>that</del> such as cafes and restaurants. Therefore providing places for

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	the visitors to eat and drink meaning this is another advantage. However the site is located further out of the city. Therefore it is not at the centre of the city <del>and</del> and there isn't as many tourist attractions or other benefits that come with being near the CBD. Another disadvantage is it is near an industrial park <sup>(415846)</sup> this then <del>could</del> could be noisy or loud when events are on or it could disrupt the work the workers are doing in the industrial park. Another <sup>advantage</sup> <del>disadvantage</del> is the <sup>employment</sup> <del>climate</del> as there is the atlas pg 34 <sup>Precipitation</sup> <del>suggests</del> that there is around 750 mm of <del>rain</del> annually. <del>there is</del> the outdoor facilities. The atlas pg 39 highlights that around 70% are employed in services. This could increase as there will be new jobs available in the local area for people to work in especially

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4	When there is a near by suburban area	
(a)		
(iii)	The new development will impact traffic	
	congestion in the local area. This is	
	because the venue can seat 20,000	
	people and many of whom will bring	
	their cars as there is a new car park	
	being built. Another impact that the	
	new development will have is it could	
	increase noise pollution as there is	
	a suburban area (43,83). The events	
	may disrupt day to day lives as there is	
	also <del>local</del> schools near by. The noise	
	levels may become an issue for families.	
	Another impact of the development is it	
	will provide jobs for the local area.	
	The suburban area may benefit from	
	the new jobs available if the plan	
	goes ahead to build the new venue.	

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1		
(b)	The factors that have influenced the location	
	of Allerton Golf Course is that it has good	
	accessability. There is a dual carriageway	
	at 4/19 866. This will provide access to	
	the golf course and back into the centre of	
	Liverpool, therefore more people are likely	
	to join the club. Another factor that will	
	have influenced the site is <del>the</del> the land.	
	The contour lines are <del>more</del> slightly far apart	
	but in other areas they are closer together.	
	This means that at certain areas there	
	golf course will be steeper 4/2 863 and	
	in other areas the land will be flatter 4/4	
	864. This accomodates many different	

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	golfers prefered land that they can golf on .
	Therefore it creates a course that most people are happy with .
	<del>The waver tree technology park is situated at 3890 . The park has good transport links with a train line at 385907 . This will provide access for many of the workers and will also reduce traffic congestion in the local area .</del>
	The Golf Course also is surrounded by Suburban areas housing . <del>This will</del> Suburban housing (4086)(4286) is often <sup>quite</sup> <del>quite</del> as it is away from the CBD . This will provide a calming area for many of the golfers as there will be less noise pollution .
	<del>The national trail</del> The waver tree technology park is situated at 3890 . The park has good transport links with

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a trainline of 385 907. This will provide accessibility to people in the local area and the workers in the local area can access the jobs. It will also reduce traffic congestion as many employees will take the train to work.



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b. ~~An~~ environmental-quality surveys could be carried out along the roads to evaluate the quality of sightseeing etc along the roads and can improve this to attract more cyclists.

Environmental-quality surveys could be carried out along the roads. In this you can look at the beauty of the area by the amount of open green spaces, the no. of parked cars, how interesting the area is. The more interesting and attractive the area the more likely people want to cycle along it.

The survey could be carried

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out by numerous people and an average taken to avoid any bias. <sup>Roads</sup> Areas with the lowest scores could be revisited and ideas on how to improve it generated.

Questionnaires could be completed. You could ask cyclists along each route why they use this road. You could scalar question e.g. On a scale from one to five how safe do you think this route is?; how scenic do you think this route is? etc.

You can measure noise levels along the roads, busier roads will have less cyclists due to the lower quality environment. To combat this you could look

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at introducing alternative  
quieter side roads which  
coincide with the route.

## Candidate 3 evidence

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
3-d)	<p>Diagram 4 shows that overall, the majority of the wind comes from the West over Scotland. <del>1250 hours per year the wind prevailing wind comes from the West</del> the majority of this wind ranges is over 61km/hour, however Liverpool Bay also receives up to roughly 750 hours of wind at speeds of 719 km/hour, along with roughly 1000 hours per year of wind speeds of between 38 and 50km/hour. Liverpool Bay receives the least of its wind from directly North as the sector graph shows the smallest sector coming from directly North with less than 250 hours per year coming from that direction. <del>Then</del> the amount of wind coming from the East is greater than that coming from the North but smaller than that coming from the South. West South West receives the <del>the</del> biggest the second largest amount of wind after directly West, followed by West North West.</p>





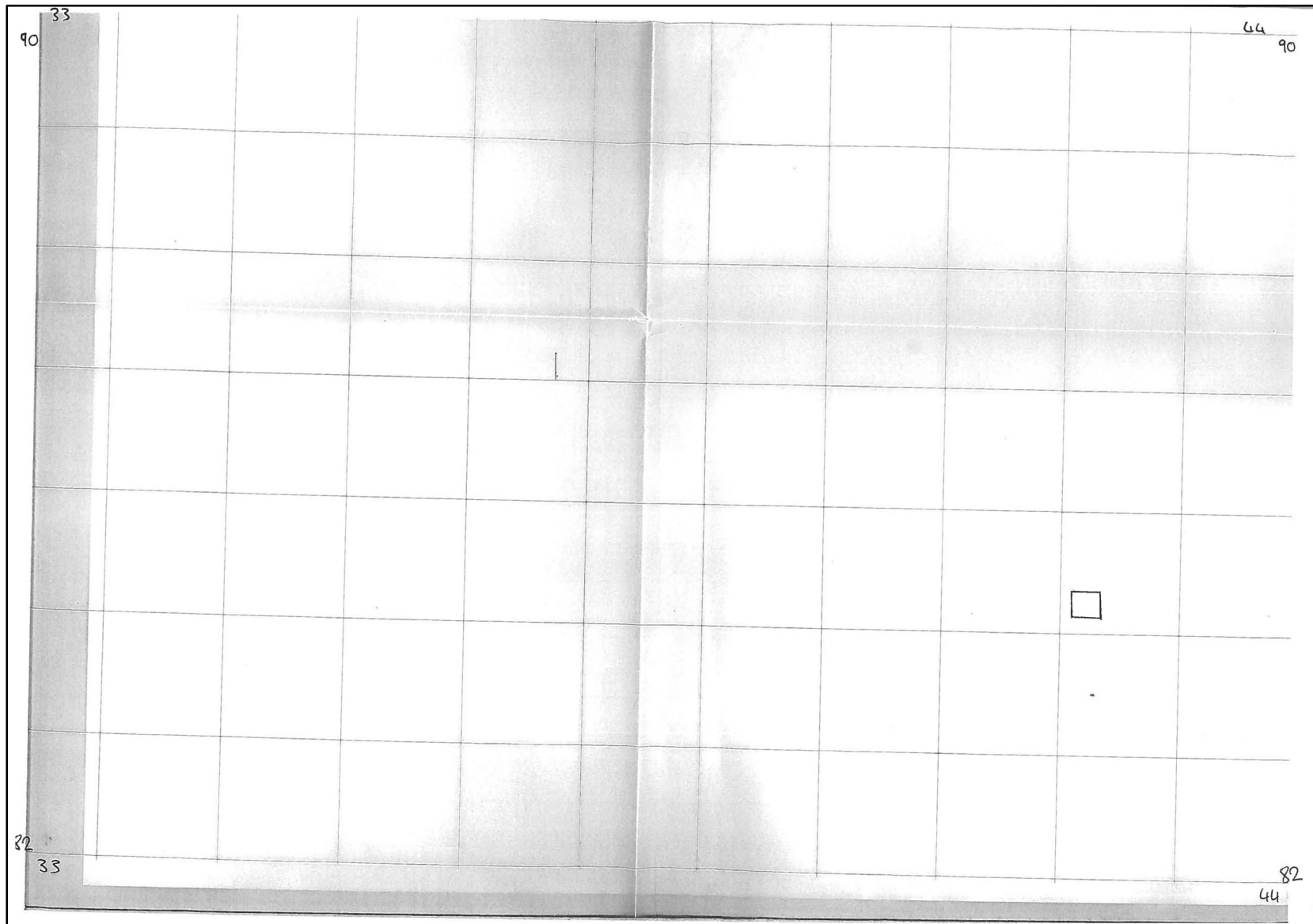
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<p>is a huge expanse of water that ranges from Ireland and down the west coast of England. Therefore, there is a huge area for as shown on page 12 of the Atlas. Therefore, there is a huge area for wind speeds to pick up and hit the Bulbo Bank wind farm, providing huge amounts of energy for to supply the wind farm.</p> <p>The Atlas shows that there are ferry routes running from Liverpool which must <del>be</del> have been taken into account before building the wind farm. However, these routes will not come anywhere near the wind farm to cause any disruption, but do create an interesting view for passengers.</p> <p>The wind farm has wind turbines 195m tall which could be very visually polluting if they were situated closer to the land, however being in the sea reduces this effect significantly.</p> <p>They are also far enough away to prevent any danger for fishing boats coming out of the</p>	

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	<p>river Mersey into the sea, or for recreational water sports such as kayaking and sailing.</p> <p>migrating sea birds or animals coming to the mainland are also less likely to be affected by the wind farm as it is far enough out to not cause any disruption around the immediate coastline and harbour. The Burbo Bank is very exposed however to the elements. If a huge storm came from the North West, the wind farm will receive a huge battering which may potentially damage it. Page 24 of the Atlas shows that the Liverpool area and surroundings are not affected by huge amounts of rainfall, therefore, there with an average <del>amount</del> annual rainfall of 750mm. Therefore, the rain will not be a huge factor or impact here, meaning less maintenance will be required at the top of the turbine.</p>

d) An extension of the Burnside Bank wind farm could lead to visual pollution for those living in Crasky, and may obscure the view of the Snowdonia mountains slightly. A concern could also be that house prices drop significantly due to the view becoming of less quality as previously before the extension was built. This would have negative effects on Crasky as a whole. Then as there will be over twice as many wind turbines present now, birds migrating may be affected or put off from ~~soaring~~ <sup>in</sup> and landing ~~at~~ the area which



# Candidate 4 evidence



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1		
a(ii)	I have chosen site 423842.	
	An advantage of this site is that there	
	are existing roads e.g A562 nearby	
	the proposed site therefore there will	
	not have to be new roads built.	
	The site is nearby (less than 1km <sup>2</sup> from)	
	the New Mersey Retail Park which	
	will already attract customers and so	
	people know the routes to this new	
	destination already	
	Another advantage is that being next to	
	the New Mersey Retail Park, it allowed	
	people to spend time at the retail	
	park shopping and eating then visiting	
	the venue for a concert for example.	



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	<p>In further areas nearer the existing Echo Arena which is more beneficial and appealing as it is near the main town in Liverpool</p> <p>A small building (423843) may have to be knocked down and rebuilt elsewhere in order to free up room for the new venue.</p>
8/2	
1	
a(ii)	<p>The venue could impact locals as it would help to create jobs for nearby citizens in the areas of Halewood and Liverpool.</p> <p>The venue would also help boost the local economy as it would attract more people to the area and the</p>

ENTER NUMBER OF QUESTION	DO NOT WRITE IN THIS MARGIN
b.	

New Mersey Retail Park nearby.

The venue is far from any local housing schemes therefore noise pollution should not be seen as an issue as the area will be noisy at times e.g. concerts.

b. Allerton Golf Course was created at this site due to the open space which is difficult to find in Liverpool. There are also lots of trees and greenery which ~~is~~ <sup>is</sup> crucial for a golf course.

The area is also very hilly. It ~~reaches~~ varies from 50m to 70m in height which is useful for a golf course.

Wavertree Technology Park was ~~created~~ <sup>built</sup> at this site as there are good



## Candidate 5 evidence

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2.	<p>a) Flow line diagrams are useful in showing the direction of movement and density of movement for a counted item.</p> <p>In this case the flow line diagram will show the direction and density of cyclists towards the CBD. This with use of a flow line diagram will display which routes are used more frequently by cyclists commuting to the CBD. This will be visually effective in comparing where the council should construct ways for bicycles, in this case: the A57, A5038 and the A580. Those with relatively high frequencies will have larger flow arrows pointing towards the city centre. However due to roads being narrow and close to each other will result in possible overlapping and difficulty to see the original location and direction of the route.</p> <p>A scale will be used when drawing the diagram e.g. 1mm = 10 cyclists on average per day <del>per</del> travel towards town, this will allow totals to be received on the map. The diagram may also be used for cause and effect analysis e.g. why rent cyclists using the A5038 is it dangerous? how do we make the road safer for vulnerable road users? Further analysis can be conducted to find out answers to questions raised.</p>

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b)	<p>Questionnaires and Surveys: questionnaires allow us to gain information which would be otherwise be unavailable to the public. Questions could consist of open and closed ended questions for example: do you cycle to work? why do / don't you cycle? what are your views on the Myre side active travel survey? This will be able to gain a view on why people want cycling and what ways they would be more inclined to cycle. * →</p> <p>Urban Land Use Survey: use of a land use survey to investigate issues and current availability of land use to encourage cycling. Unlike previous common RICEPOTS method adjust key to be along the lines of: bike rack, cycle lanes, etc. This will help the council to know which locations are requiring increased infrastructure to <del>almost</del> encourage cyclists.</p> <p>Traffic counts: conduct a traffic counts in order to find out the flow of vehicles and the type of vehicles on the road. <del>This is now</del> For example categories will include, cyclists, cars / vans, Buses / Lorries, motorcyclists. This will be useful to see percentage of cyclists compared to other larger road vehicles. <del>which may</del> This may show that number of cyclists are greater <sup>percentage</sup></p>



# Candidate 6 evidence

<p>ENTER QUESTION NUMBER BELOW</p>	<p>Do not type in this shaded box</p>	<p>DO NOT WRITE IN THIS MARGIN</p>
<p>3a)</p>	<p>The majority of wind that blows into Liverpool bay throughout the year comes from a westerly direction. It recieves over 1250 hours of wind each year directly from West which is significantly more than any other direction. While the two other directions from Liverpool bay which receive the most wind are WSW and WNW both reciving over 750 hours of wind each year. This shows a definent trend in the direction of the wind. The direction from Liverpool bay which reciecves the least wind throughout the year is N. This recieves less than 250 hours of wind every year. The most common wind speed Liverpool Bay recieves all year round is between 19 and 28 km per hour. While the highest wind speed exeeceeds 61 km/h. This is only however for around 10 hours a year.</p>	
<p>3b)</p>	<p>The polar graph is easier to read and interpret due to its bold shaded sections displaying different wind speeds in clear directions. While in order to interperate data from the table the observer has to take in large quanities of numbers and cant clearly see trends.</p> <p>The table is more effective in showing exact data. The numbers in the table show the exact time the wind blew for at each strengh which allows for accurate calculation to be made need be. Whereas it can be hard to pick out exact values on the polar graph due the scale that is used lacking percision.</p> <p>The polar graph shows the length of time different wind speeds blew in specific directions, while the table shows the overall time different wind overall speeds blew for in every direction. This mean it could be hard to get a number for the overall occurance of different wind speeds as it would reuquire counting lots of different values up. However it is more useful for specific data.</p> <p>The shades used in the polar graph can be hard to distinguish between as they are in black and white, meaning a observer could misread the graph and take in the wrong information. No such mistake can be made with the table as the numbers are exact and easily read.</p> <p>The polar graph while visually appealing can be tricky and time consuming to construct. While the table while being basic still shows all the data gathered and can be easily constructed simply by imputting the numbers.</p>	
<p>3c)</p>	<p>Burbo banks location on the west coast means that it will receive high wind levels coming across from the Atlantic sea. The wind will have travelled along way meaning that it will be of increased strengh, increasing the effiency of the wind farm.</p> <p>Anglesey island to the south west of the wind farm while not directly blocking wind from the west could reduce wind speed coming in from a WSW direction due to wind hitting any development built up there. This might slightly reduce the effectiveness of the windfarm.</p> <p>Burbo Bank's location is not to far from the coastline. These means that is it is easier to get the power the wind farm generates back to the land, aswell as making it easier for teams to travell out and carry out mantience on the wind farm need be.</p> <p>The proximty of Burbo Bank to the coastline also means however that it is</p>	

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	<p>easily visible to those living there. Particularly in Crosby which is directly east of the wind farm and Wirral which is SE. The wind farm may prove to be somewhat of an eyesore on the otherwise attractive coastline and might encourage complaints and reduce the appeal of the area. This is perfectly shown in diagram 3.</p> <p>The Snowdonia mountains lie to the SSW of Burbo Bank and could prove to block wind coming in from that direction. Their height and size could act as a physical barrier for the wind preventing it from reaching the wind farm and therefore reducing its effectiveness.</p> <p>Liverpool contains many tourist attractions such as Merseyside Maritime Museum which receives over 1 million visitors every year. The wind farm could make the coastline less appealing to tourists making them less likely to visit. However it could also become an attraction in itself in the future and possibly become a feature of the museum.</p>	
3d)	<p>One concern is that the wind farm may begin to spoil or block out the view that the people of Crosby have of the Snowdonia mountains. The view of these mountains is one of the main selling points for people living in the area and if this view is spoiled it could reduce the affluence of the area.</p> <p>The wind farm could also prove dangerous for coastal birds in the area if it is further expanded. Birds can often become confused or fail to see the spinning turbines and bird populations could decrease due to higher death rates.</p> <p>The wind farm will require high levels of maintenance. This means that boats will be going back and forth from the coastline constantly and construction will take place on the sea floor. This could cause damage or pollution to fragile marine ecosystems that exist on the coastline reducing the biodiversity of the area.</p> <p>Further expansion of the wind farm will also require further investment from the government and council. This means that other matters such as healthcare and schools will have less money available to them. Many people in the area may begin to argue that these matters are of greater importance and a bad feeling around the wind farm might begin to develop.</p> <p>Another concern is that the wind farm will take up more space on the coastline. This means that other users of the coast such as fishermen will have their space to fish reduced even further than it was after the initial construction. This may cause upset as well as reduced profits from the fishing industry for the area.</p>	